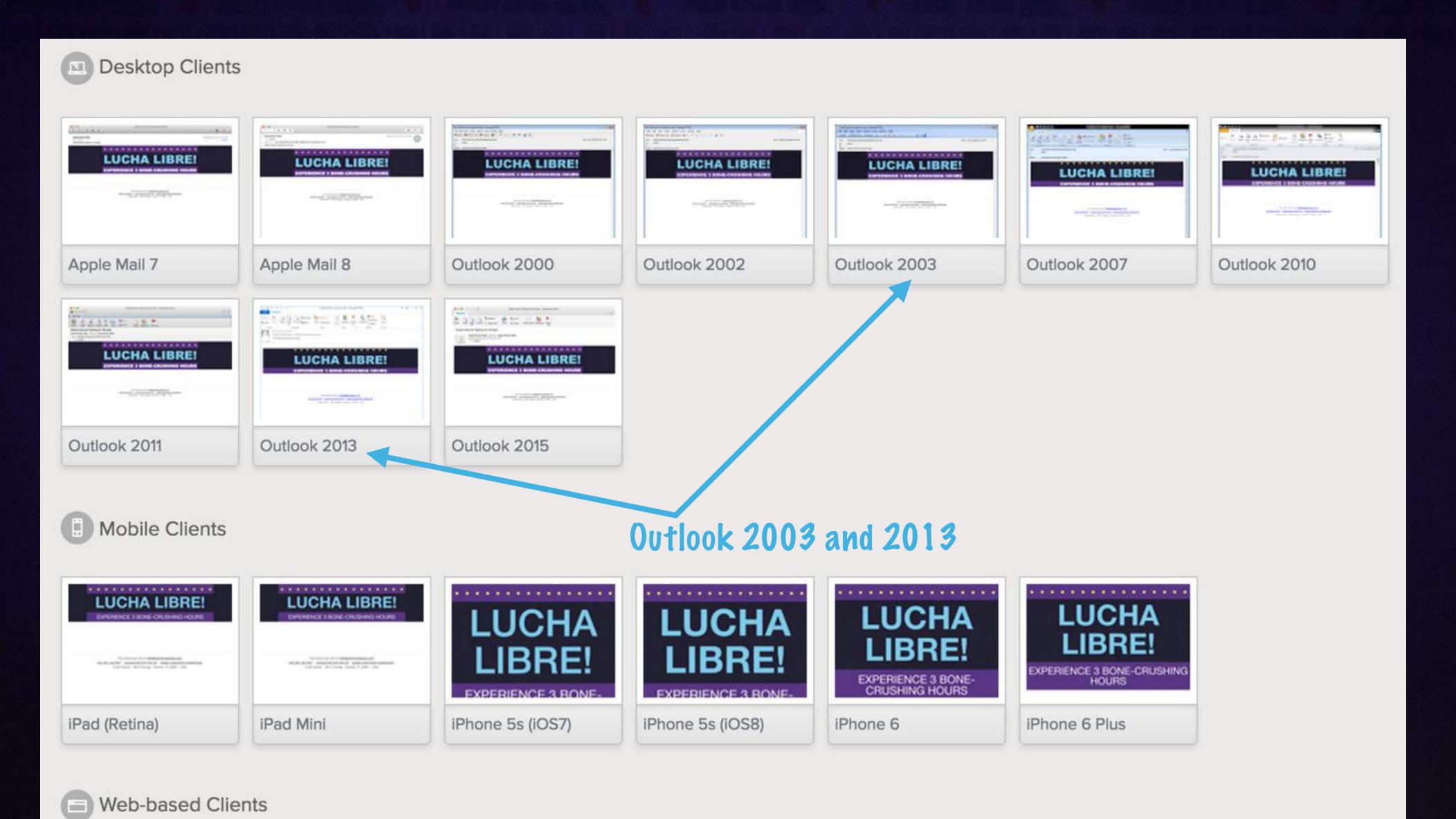


Level 2 - Tables for Layout

Automated testing in multiple clients

Using a service, we see results for multiple clients very quickly.

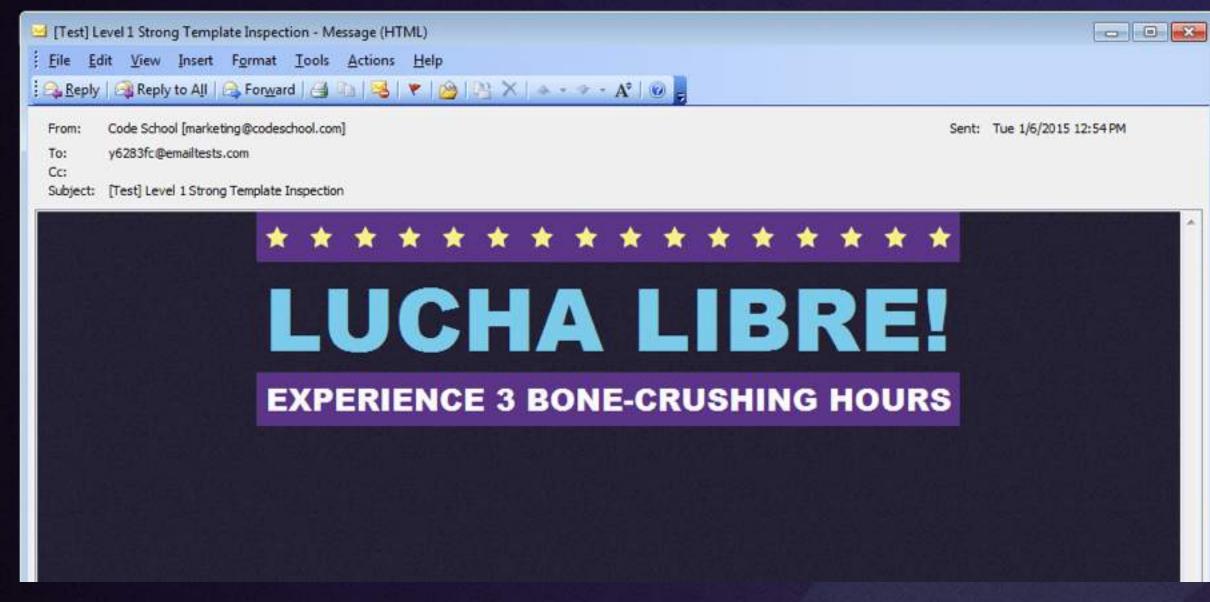


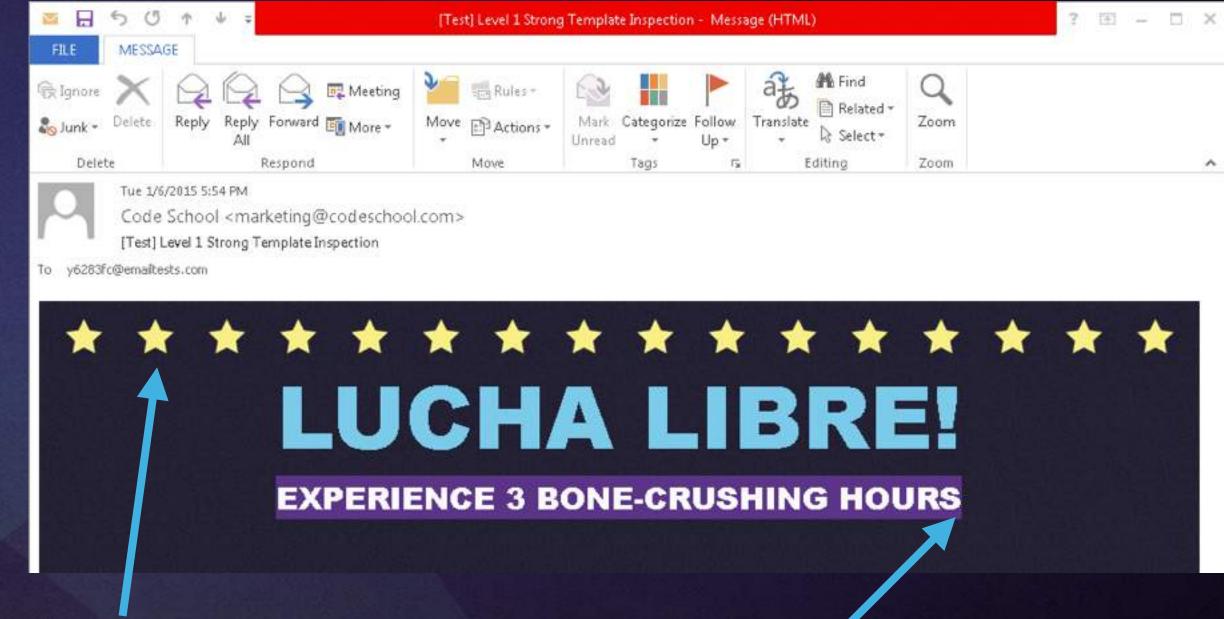
The Microsoft Word rendering engine

Outlook 2007, 2010, and 2013 use Word to render HTML emails.









Width is incorrect

Padding is missing



Word lacks box model and position support

The necessities for controlling layout are not supported on most HTML elements in Word.

	Height	Display	Float	Position	Width	Padding
Outlook 2007-2013	X		X			
				Na	aumnorchad	on diversand a



Use tables for layout when CSS isn't available

With Word as a rendering engine, layout CSS doesn't exist.

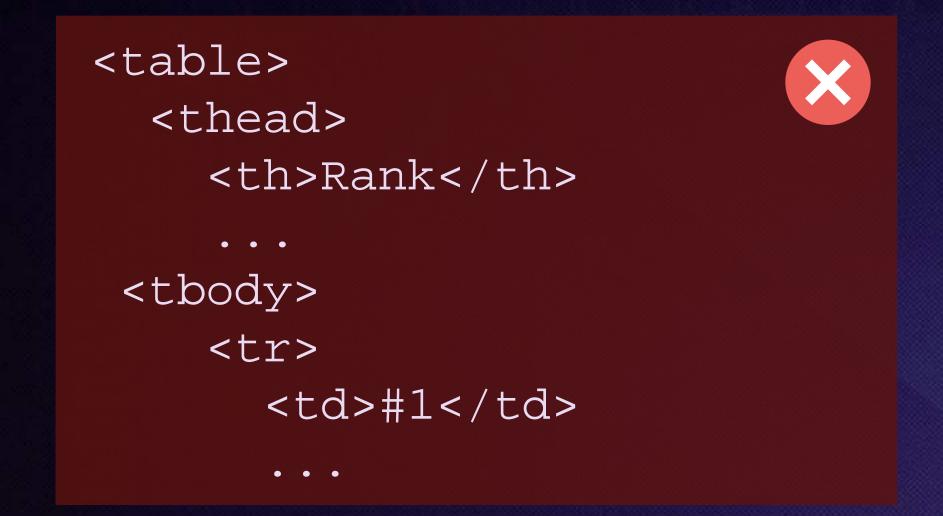
"Note: Prior to the creation of CSS, HTML elements were often used as a method for page layout. This usage has been discouraged since HTML 4, and the element should not be used for layout purposes."

- https://developer.mozilla.org/en-US/docs/Web/HTML/Element/table



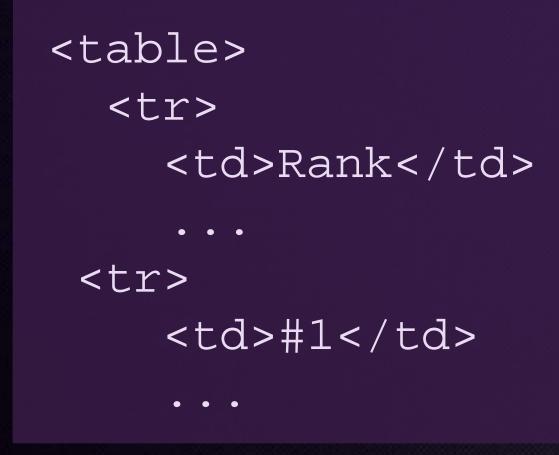
Use simplified tables for layout

Simplification means only using , , and .



Rank	Client	Market Share
#1	Apple iPhone	28%
#2	Gmail	16%
#3	Apple iPad	13%
#4	Outlook	9%
#5	Apple Mail	8%







No default type or background colors

Rank	Client	Market Share
#1	Apple iPhone	28%
#2	Gmail	16%
#3	Apple iPad	13%
#4	Outlook	9%
#5	Apple Mail	8%



Use simplified tables for layout

Simplification means only using , , and .

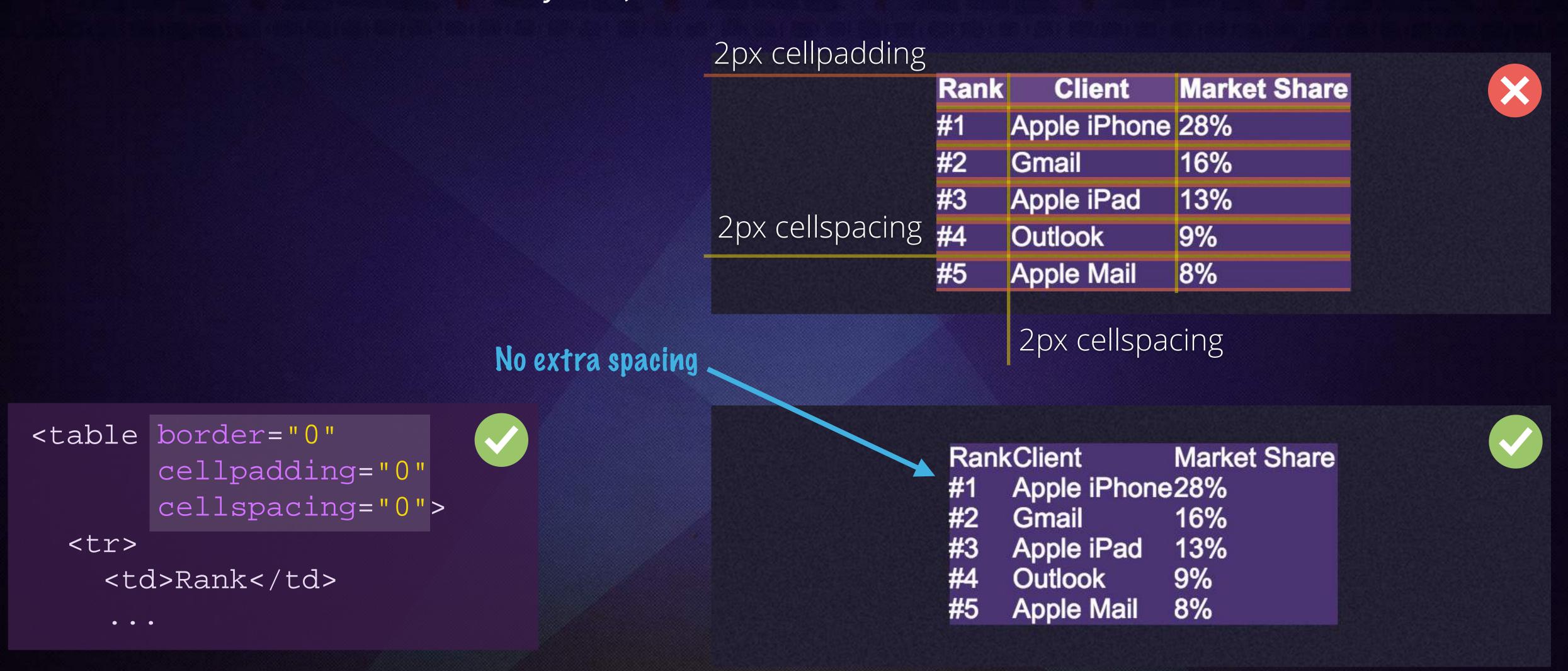
Rank	Client	Market Share
#1	Apple iPhone	28%
#2	Gmail	16%
#3	Apple iPad	13%
#4	Outlook	9%
#5	Apple Mail	8%





Reset default spacing

Default values in clients will affect layouts, but attributes can be used to normalize them across clients.



Use single cell tables for containers

This basic table will be used to contain content.

For brevity in examples, we'll write like this: ""

Adding content to tables

All content must go into a table cell.

email.html

```
<div ... >
     <div ... >
     <img ... />
     <h1 ... >Lucha Libre</h1>
     Experience 3 Bone-
Crushing Hours
     </div>
   </div>
```

Image styles are not rendered





EXPERIENCE 3 BONE-CRUSHING HOURS



Elements need to be separated into rows and cells



LUCHA LIBRE!

EXPERIENCE 3 BONE-CRUSHING HOURS

1 table 3 rows, each with 1 cell

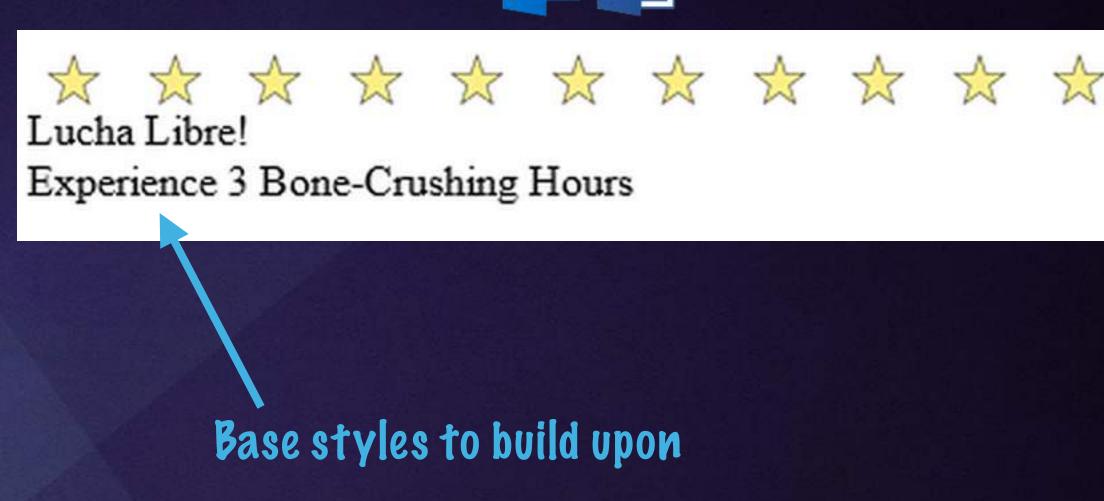
Organize content with table elements

Use rows and table cells for separating content.

email.html

```
<img src="...stars.png" width="600"/>
  Lucha Libre! — instead of <h1>
  Experience 3 Bone-Crushing Hours - Instead of (p)
```







Organize content with table elements

Use rows and table cells for separating content.

email.html







Styling the stars image

Styles that Word doesn't support for images are set on the table cell.

email.html



Be cautious of layout CSS that could impact other clients



Styling a header without using <H1>

Type styles are applied to the containing cell.

email.html

```
<td style="
       color: #7fcce9;
      font-family: 'Arial Black';
      font-size: 74px;
      line-height: 74px;
      padding: 5px 0 10px 0;
       text-transform: uppercase;">
     Lucha Libre!
```





Styling text in a container

Type and container styles are applied to the table cell.

email.html

```
<td style="
       background: #5b3885;
       color: #fcfbfd;
       font-family: 'Arial Black';
       font-size: 26px;
       line-height: 26px;
       padding: 10px 0;
       text-transform: uppercase;">
     Experience 3 Bone-Crushing
Hours
```





EXPERIENCE 3 BONE-CRUSHING HOURS



Centering all text

Some styles that can be applied to all text can be applied to the container table.

email.html



Be cautious of client-applied styles.



Some webmail clients add text styles to cells

Gmail sets the font family to Arial and AOL sets cell color to black.



```
body, td, input, textarea, select {
   margin: ▶0;
   font-family: arial, sans-serif;
}
```

Gmail sets Arial as a font family



```
Styles | Computed >>
 ▼
                           background: element.style {
    <td style="
                                                              + ::
    #5b3885;
                        color:
                                        background: ► #5b3885;
    #fcfbfd;
                        font-family:
                                        'Arial Black';
                              font-
                                        font-family: 'Arial Black';
    size: 26px;
                           line-
                                        font-size: 26px;
    height: 26px;
                            margin:
                                        line-height: 26px;
                  padding: 10px 0;
                                        margin: ▶0;
    text-transform: uppercase;">
                                        padding: ▶ 10px 0;
              Experience 3 Bone-
                                        text-transform: uppercase;
    Crushing Hours
   #A0LMsgPart_1_309b24da-a112-
 4e6f-8359-853caa9c5ae1 td {
color: | black;
<center>...</center>
```



Aligning the content table

The HTML attribute align is used to position tables in their containing element.

email.html

```
...
```

Use align instead of margin





Adding a background

Use a wrapper table around the content with the background.

email.html

</body>

```
<body ... >
 <table ...
       style="
       background-color: #211f31;
       background-image: url('bg-
texture.png');"
       width="100%">
   Our content table with 3 rows
```





LUCHA LIBRE!

EXPERIENCE 3 BONE-CRUSHING HOURS



HTML EMAILS

Test results with tables

Layout issues are fixed in all clients.







We'll fix line height later